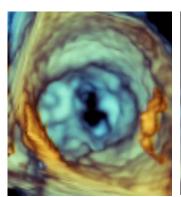
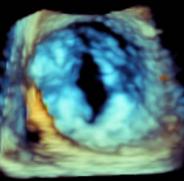
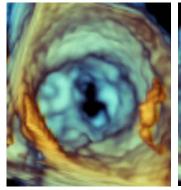
Questions on 3D Echocardiography

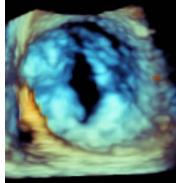




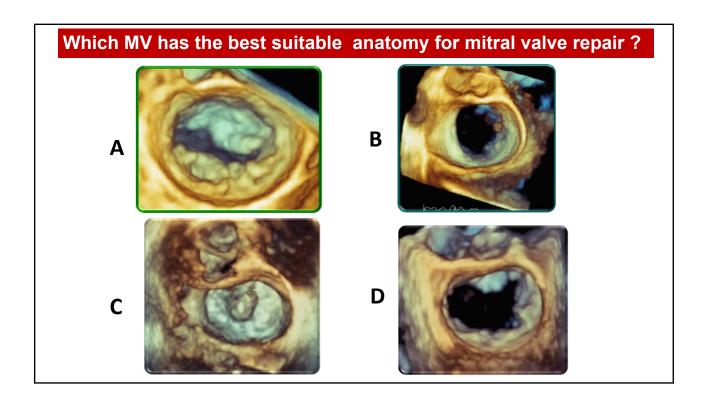


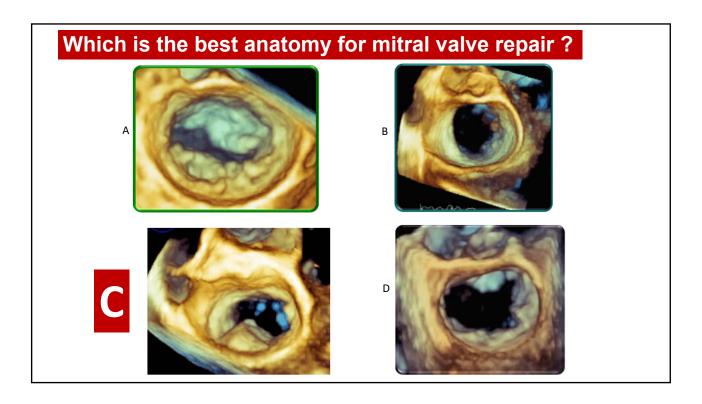
- 1. Mitral valve clip
- 2. Valve-in-valve
- 3. Balloon mitral valvuloplasty
- 4. Perivalvular leak closure





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- 3. Balloon mitral valvuloplasty
- 4. Perivalvular leak closure





Which of the follow statements regarding left ventricular volumetric measurements is true?

- 1. LV Volume calculations can be accurately derived from linear measurements.
- 2. With 2D echocardiography, contrast agents improve endocardial delineation and provide smaller volumes than non-contrast images.
- 3. Left ventricular volumes using three-dimensional echocardiography are larger than those obtained with CMR
- 4. Left ventricular volumes obtained with three-dimensional echocardiography are more accurate than those acquired with 2D echocardiography when compared to an MRI gold-standard.

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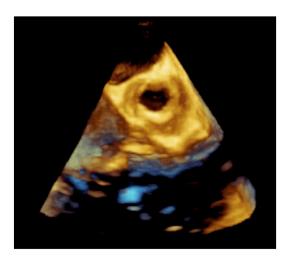
Which of the following statements regarding twodimensional echocardiography and three-dimensional echocardiography in the assessment of left ventricular volumes is true?

- 1. Apical images are frequently foreshortened on two-dimensional echocardiography leading to overestimation of volumes.
- 2. Three-dimensional echocardiography volumetric assessment avoids the geometric assumptions needed to calculate volumes on two-dimensional echocardiography.
- 3. Two-dimensional echocardiographic volume measurements account for regional wall abnormalities.
- 4. Three-dimensional echocardiography provides more accurate measurements when acoustic windows are poor compared to two-dimensional echocardiography.

Which of the following statements regarding twodimensional echocardiography and three-dimensional echocardiography in the assessment of left ventricular volumes is true?

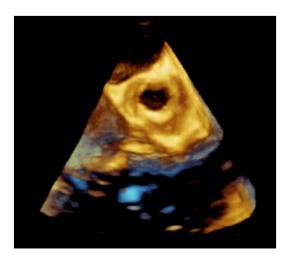
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What is the most likely diagnosis?



- 1.Bicuspid aortic valve
- 2.Aortic valve post TAVR
- 3. Unicuspid Aortic Valve
- 4. Trileaflet Aortic VAlve

What is the most likely diagnosis?



1.Bicuspid aortic valve2.Aortic valve post TAVR3.Unicuspid Aortic Valve4.Trileaflet Aortic VAlve



- 1. Valve-in-valve
- 2. Mitral valve clip
- 3. Perivalvular leak closure
- 4. Annuloplasty ring



- 1. Valve-in-valve
- 2. Mitral valve clip
- 3. Perivalvular leak closure
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